DST35U individual LCD touch control panel is designed to work with any type of AIRTEK DAC/DSC series controller which has MSnet port. It is a two-wire RS485 communication transmission interconnection with the controller. It may facilitate the user by graphically to access, examine, setting, change and confirm each kind of control parameter value from DAC/DSC controller, for example temperature value, humidity value, devices operation status, and alarm messages, enable output points start/stop, changing the temperature and humidity setting values, etc. DST35U has a 3.5 inches TFT LCD touch screen and Simplified / Traditional Chinese / English display subtitles function, four function keys, build in with a 32-bit high performance microprocessor. User can use BACsoft software or HMIkit to edit screen pages, even corporate image or promotion leaflet can be loaded to the screen when in non operation mode. This not only enhance the added value of products but also enhance the effectiveness of corporate image advertising.

**Features**

- 32 bit microprocessor.
- Good for wall mount or installed in front of a control panel.
- MODBUS RS-485 RTU communication, can connect to MSnet port of a controller to display controller information.
- 3.5" screen, 65,536 colors, touch screen TFT LCD, 320*240 pixel, set up with AIRTEK BACsoft software.
- Selectable simplified Chinese, Traditional Chinese, and English, UTF-8 fonts, simplified and traditional Chinese can be displayed on the same screen graphic.
- Four + F1 + F2 + F3 function keys, is system setup key. F1, F2, and F3 can be set up as function keys for switch display pages.
- Update firmware and upload graphic pages by using a Micro USB cable.
- 6M Bytes fonts and graphic memory. It can hold up to 25 pages display graphic. Actual pages depend on data size.
- Read/Write Present Value and Priority Array of AI/AO/AV/BI/BO/BV of the controller it attached.
- It displays alarm and keep the most recent 80 alarms, if the controller (DAC, WC, or GC-DB) it attached receive an alarm notification.
- 10 password levels. User can setup up to 20 passwords.
- Plug and play. Good for site testing.

**Specification**

| Power Supply | 24VAC/VDC, 5VA (Do not use the 24VDC provided by a DDC. It does not have enough watt) |
| LCD Display | 3.5", 65,536 color, touch screen TFT LCD, 320*240 pixels. |
| Microprocessor | 32 bit microprocessor, 64K RAM, 384K Flash memory, 8M memory for fonts and user data. |
| MSnet Port | MODBUS RTU RS-485 bus, communication speed 9,600 bps, max. transmission distance 1200 meters. |
| USB Port | Micro USB for upload firmware and information. |
| Clock | A gold capacitor to run clock for 48 hours after power interrupted. |
| Keys | Four function keys + F1 + F2 + F3. is system setting key. F1, F2, and F3 are the function keys. |
| Buzzer | One buzzer |
| Environment | 0～50℃, 2 0～90%RH non condense. |

**Accessory**

HMI-LINKER : HMI-LINKER (Mini USB cable). Selectable, not included.
【Installation】
● For wall mounted, the double gang back box should be selected for enough wiring space.
● Lock the fixed sheet iron by the screw, then installs the controller and pushes down to fix it. Uninstall it by the reverse process.
● Use the AWG22 shield cable and EMT to obtain good control effect.
● An independent 24VAC power supply is required for this device. This power supply should not share with other devices.
● Setup, upload firmware, and upload graphic display by using the BACsoft software and connect PC to DST35U with USB2.0 to Mini USB cable (see Fig. 2).
● Pay attention to avoid dust, condensate environmental element to prevent product damage.

Fig. 1 Installation

【Network Architecture】

Network Architecture of the DST35U System:

- Management Layer
  - Remote workstation (BACnet IP)
  - Operator server (BACnet IP)
  - Tablet PC (Wi-Fi, 3G, GSM)
  - Operator workstation (BACnet Ethernet)
  - Smart Phone (Wi-Fi, 3G, GSM)
  - Web Browser (Ethernet)

- Integration Layer
  - BACnet Ethernet / BACnet IP
  - Ethernet Switch
  - VDSL Broadband
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- Field control Layer
  - BACnet MS/TP
  - Modbus
  - DeviceNet
  - CANopen

- Sensor/Actuator Layer
  - BACnet
  - Modbus
  - DeviceNet
  - CANopen

【Dimension】
Unit: mm